Problem #389 : Find the Difference

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<https://leetcode.com/problems/find-the-difference/>

My Solution:

1. Put t string in a dictionary using Counter from collections.

2. Iterate through the string s and for every character in s, reduce the value in the dictionary by 1. If the value in the dictionary reaches 0, delete that key-value pair.

3. Get the keys remaining in the dictionary and convert it to a list to get the first element.

from collections import Counter

class Solution:

def findTheDifference(self, s: str, t: str) -> str:

t\_dict = Counter(t)

for char in s:

if char in t\_dict:

t\_dict[char] -= 1

if t\_dict[char] == 0:

del t\_dict[char]

return(list(t\_dict.keys())[0])

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I found a better solution online using ASCII:

1. Get the ord of each character in t and find the total.

2. Get the ord of each character in s and find the total.

3. Find the difference between the two total and convert it back to ASCII using chr.

class Solution:

def findTheDifference(self, s: str, t: str) -> str:

return(chr(sum(ord(char) for char in t) - sum(ord(char) for char in s) ))